Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1   1. (Currently amended): A computer-implemented method of searching

2   unstructured data stored in a database, the method comprising:

3   storing, using one or more computer systems, a plurality of electronic records in a

4   common repository of electronic records in the database that provides an audit trail that cannot

5   be altered or disabled by users associated with the database, wherein each electronic record

6   comprises unstructured data stored in the form of an XML document in a character large-object

7   (CLOB) format in a column of a table of the database;

8   generating, using the one or more computer systems, a first graphical user

9   interface and displaying the first graphical user interface on a display device, the first graphical

10   user interface configured to enable users to identify one or more references to sections of

11   unstructured data within the plurality of electronic records stored in the database as elements of

12   security rules, wherein the one or more identified references to sections of unstructured data

13   within the plurality of electronic records comprises XML elements specifying sections in XML

14   documents;

15   receiving, at at least one of the one or more computer systems, information from a

16   user via the first graphical user interface identifying a reference to a section of unstructured data

17   within an electronic record as an element of one or more security rules, wherein the reference to

18   a section of unstructured data within an electronic record comprises an XML element defining

19   the section in the XML document of the electronic record;

20   generating, using the one or more computer systems, the one or more security

21   rules in response to the information from the user identifying the reference to a section of

22   unstructured data within the electronic record as an element of the one or more security rules

23   such that the one or more security rules pertain to the XML element defining the section in the

24   XML document of the electronic record;

25   creating, using the one or more computer systems, a security protocol that protects

26   the plurality of electronic records stored in the database against unauthorized access based on the

27   one or more security rules;

28   creating, using the one or more computer systems, a query designed to identify a

29   set of electronic records stored in the database that meet criteria designated in the query;

30   prior to executing the query, modifying the query using the one or more computer

31   systems in accordance with the security protocol to create a modified query that includes the

32   XML element defining the ~~reference to a~~ section ~~of unstructured data within~~ in the XML

33   ~~document of~~ the electronic document identified by the user as an element of the one or more

34   security rules; and

35   running, using the one or more computer systems, the modified query against the

36   unstructured data of the plurality of electronic records stored in the database.

1   2. (Currently amended): The method of claim 1 further comprising:

2   generating, using the one or more computer systems, a second graphical user

3   interface and displaying the second graphical user interface on the display device, the second

4   graphical user interface configured to enable users to identify one or more references to sections

5   of unstructured data within the plurality of electronic records stored in the database as elements

6   of an intermediate index that indirectly indexes into one or more of the sections of unstructured

7   data within the plurality of electronic records;

8   receiving, at at least one of the one or more computer systems, information from a

9   user via the second graphical user interface identifying one or more references to sections of

10   unstructured data of the electronic record as indexed elements of the intermediate index; and

11   generating, using the one or more computer systems, the one or more security

12   rules based on the indexed elements of the intermediate index.

1   3. (Previously Presented): The method of claim 1 wherein access to electronic

2   records in the common repository is automatically granted unless the security protocol restricts

3   such access; and

4   wherein the security protocol comprises a plurality of security rules that restrict

5   access to the electronic records within the database based on content of one or more sections of

6   unstructured data within the electronic records whose corresponding references are identified as

7   elements of the plurality of security rules.

1   4. (Previously Presented): The method of claim 1 wherein access to electronic

2   records in the common repository is automatically denied unless the security protocol grants

3   such access; and

4   wherein the security protocol comprises a plurality of security rules that grant

5   access to the electronic record within the database based on content of one or more sections of

6   unstructured data within the electronic records whose corresponding references are identified as

7   elements of the plurality of security rules.

1   5. (Previously Presented): The method of claim 1 wherein the plurality of

2   electronic records are generated from multiple data sources prior to committing a database

3   transaction to the database and in response to intercepting data from the non-committed database

4   transaction.

1   6. (Previously Presented): The method of claim 5 wherein one or more fields of

2   an electronic record in the plurality of electronic records are filled with XML data based on a

3   predefined mapping of the fields to the multiple data sources.

     7. (Canceled)

1   8. (Previously Presented): The method of claim 1 wherein the unstructured data

2   comprises well-formed XML documents stored within the column of the table stored in the

3   database.

1   9. (Original): The method of claim 1 further comprising allowing a user to

2   enable and disable the security protocol.

1   10. (Currently amended): A computer system for searching unstructured data

2   stored in a database, the computer system comprising:

3   a processor;

4   a database; and

5   a computer-readable memory coupled to the processor, the computer-readable

6   memory configured to store a computer program;

7   wherein the processor is operative with the computer program to:

8   store a plurality of electronic records in a common repository of electronic

9   records in the database that provides an audit trail that cannot be altered or disabled by

10   users associated with the database, wherein each electronic record comprises unstructured

11   data stored in the form of an XML document in a character large-object (CLOB) format

12   in a column of a table of the database;

13   generate a first graphical user interface and displaying the first graphical

14   user interface on a display device, the first graphical user interface configured to enable a

15   user to identify one or more reference to sections of unstructured data within the plurality

16   of electronic records stored in the database as elements of security rules, wherein the one

17   or more identified references to sections of unstructured data within the plurality of

18   electronic records comprises XML elements specifying sections in XML documents;

19   receive information from a user via the first graphical user interface

20   identifying a reference to a section of unstructured data within an electronic record as an

21   element of one or more security rules, wherein the reference to a section of unstructured

22   data within an electronic record comprises an XML element defining the section in the

23   XML document of the electronic record;

24   generate one or more security rules in response to the information from the

25   user identifying the reference to a section of unstructured data within the electronic

26   record as an element of the one or more security rules such that the one or more security

27   rules pertain to the XML element defining the section in the XML document of the

28   electronic record;

29   create a security protocol that protects the plurality of electronic records

30   stored in the database against unauthorized access to the unstructured data within each

31   electronic record based on the one or more security rules;

32   create a query designed to identify a set of electronic records stored in the

33   database that meet criteria designated in the query;

34   modify the query in accordance with the security protocol to create a

35   modified query prior to executing the query that includes the XML element defining the

36   reference to a section of unstructured data within in the XML document of the electronic

37   document identified by the user as an element of the one or more security rules; and

38   run the modified query against the unstructured data of the plurality of

39   electronic records stored in the database.

1   11. (Previously Presented): The computer system of claim 10 wherein the

2   processor is further operative with the computer program to:

3   generate a second graphical user interface and displaying the second graphical

4   user interface on the display device, the second graphical user interface configured to enable a

5   user to identify one or more references to sections of unstructured data within the plurality of

6   electronic records stored in the database as elements of an intermediate index that indirectly

7   indexes into one or more of the sections of unstructured data within the plurality of electronic

8   records;

9   receive information from a user via the second graphical user interface identifying

10   one or more references to sections of unstructured data of the electronic record as indexed

11   elements of the intermediate index; and

12   generate the one or more security rules based on the indexed elements of the

13   intermediate index.

1   12. (Previously Presented): The computer system of claim 10 wherein the

2   processor is further operative with the computer program to:

3   automatically grant access to electronic records in the database unless the security

4   protocol restricts such access; and

5   wherein the security protocol comprises a plurality of security rules that restrict

6   access to the electronic records within the database based on content of one or more sections of

7   unstructured data within the electronic records whose corresponding references are identified as

8   elements of the plurality of security rules.

1   13. (Previously Presented): The computer system of claim 10 wherein the

2   processor is further operative with the computer program to:

3   automatically deny access to electronic records in the database unless the security

4   protocol grants such access; and

5   wherein the security protocol comprises a plurality of security rules that grant

6   access to the electronic records within the database based on content of one or more sections of

7   unstructured data within the electronic records whose corresponding references are identified as

8   elements of the plurality of security rules.

1   14. (Previously Presented): The computer system of claim 10 wherein the

2   plurality of electronic records are generated from multiple data sources prior to committing a

3   database transaction to the database and in response to intercepting data from the non-committed

4   database transaction.

1   15. (Previously Presented): The computer system of claim 14 wherein one or

2   more fields of an electronic record in the plurality of electronic records are filled with XML data

3   based on a predefined mapping of the fields to the multiple data sources.

          16. (Canceled)

1   17. (Previously Presented): The computer system of claim 10 wherein the

2   unstructured data comprises well-formed XML documents stored within the column of the table

3   stored in the database.

1   18. (Currently amended): A computer program product having a computer-

2   readable storage medium storing a set of code modules which when executed by a processor of a

3   computer system cause the processor to search unstructured data stored in a database, the

4   computer program product comprising:

5   code for storing a plurality of electronic records in a common repository of

6   electronic records in the database that provides an audit trail that cannot be altered or disabled by

7   users associated with the database , wherein each electronic record comprises unstructured data

8   stored in the form of an XML document in a character large-object (CLOB) format in a column

9   of a table of the database;

10   code for generating a first graphical user interface and displaying the first

11   graphical user interface on a display device, the first graphical user interface configured to

12   enable a user to identify one or more reference to sections of unstructured data within the

13   plurality of electronic records stored in the database as elements of security rules, wherein the

14   one or more identified references to sections of unstructured data within the plurality of

15   electronic records comprises XML elements specifying sections in XML documents;

16   code for receiving information from a user via the first graphical user interface

17   identifying a reference to a section of unstructured data within an electronic record as an element

18   of one or more security rules, wherein the reference to a section of unstructured data within an

19   electronic record comprises an XML element defining the section in the XML document of the

20   electronic record;

21   code for generating the one or more security rules in response to the information

22   from the user identifying the reference to a section of unstructured data within the electronic

23   record as an element of the one or more security rules such that the one or more security rules

24   pertain to the XML element defining the section in the XML document of the electronic record;

25   code for creating a security protocol that protects the plurality of electronic

26   records stored in the database against unauthorized access based on the one or more security

27   rules;

28   code for creating a query designed to identify a set of electronic records stored in

29   the database that meet criteria designated in the query;

30   code for modifying the query in accordance with the security protocol to create a

31   modified query prior to executing the query, the modified query including the XML element

32   defining the ~~reference to a~~ section ~~of unstructured data within~~ in the XML document of the

33   electronic document identified by the user as an element of the one or more security rules; and

34   code for running the modified query against the unstructured data of the plurality

35   of electronic records stored in the database.

1   19. (Previously Presented): The computer program product of claim 18 further

2   comprising:

3   code for generating a second graphical user interface and displaying the second

4   graphical user interface on the display device, the second graphical user interface configured to

5   enable a user to identify one or more references to sections of unstructured data within the

6   plurality of electronic records stored in the database as elements of an intermediate index that

7   indirectly indexes into one or more of the sections of unstructured data within the plurality of

8   electronic records;

9   code for receiving information from a user via the second graphical user interface

10   identifying one or more references to sections of unstructured data of the electronic record as

11   indexed elements of the intermediate index; and

12   code for generating the one or more security rules based on the indexed elements

13   of the intermediate index.

1   20. (Previously Presented): The computer program product of claim 18 further

2   comprising:

3   code for automatically granting access to electronic records in the database unless

4   the security protocol restricts such access;

5   wherein the security protocol comprises a plurality of security rules that restrict

6   access to the electronic records within the database based on content of one or more sections of

7   unstructured data within the electronic records whose corresponding references are identified as

8   elements of the plurality of security rules.

1   21. (Previously Presented): The computer program product of claim 18 further

2   comprising:

3   code for automatically denying access to electronic records in the database unless

4   the security protocol grants such access;

5   wherein the security protocol comprises a plurality of security rules that grant

6   access to the electronic records within the database based on content of one or more sections of

7   unstructured data within the electronic records whose corresponding references are identified as

8   elements of the plurality of security rules.

1   22. (Previously Presented): The computer program product of claim 18 wherein

2   the plurality of electronic records are generated from multiple data sources prior to committing a

3   database transaction to the database and in response to intercepting data from the non-committed

4   database transaction.

1   23. (Previously Presented): The computer program product of claim 18 wherein

2   one or more fields of an electronic record in the plurality of electronic records are filled with

3   XML data based on a predefined mapping of the fields to multiple data sources.

          24. (Canceled)

1   25. (Previously Presented): The computer program product of claim 18 wherein

2   the unstructured data comprises well-formed XML documents stored within the column of the

3   table stored in the database.

1   26. (Previously Presented): A method for searching electronic records stored in a

2   common repository in a database that provides an audit trail that cannot be altered or disabled by

3   users associated with the database, wherein each electronic record comprises a well-formed

4   XML document stored in a character large-object (CLOB) format in a column of a table of the

5   database, the method comprising:

6   displaying a first graphical user interface on a display device, the first graphical

7   user interface configured to enable users to designate XML tags within XML documents

8   associated with the plurality of electronic records stored in the database for use as secure

9   elements of security rules;

10   receiving input via the first graphical user interface identifying an XML tag

11   within an XML document associated with a first electronic record as a secure element;

12   displaying a second graphical user interface on the display device, the second

13   graphical user interface configured to enable users to associate XML tags designated for use as

14   secure elements with events;

15   receiving input via the second graphical user interface associating the XML tag

16   within the XML document with a first event;

17   displaying a third graphical user interface on the display device, the third

18   graphical user interface configured to enable users to create security rules for events;

19   receiving input via the third graphical user interface creating a security rule

20   identifying the first event and having the XML tag as a secure element;

21   generating a security protocol based on the security rule, the security protocol

22   protecting access to the first electronic record based on content within the XML document that

23   corresponds to the XML tag designated as a secure element of the security rule;

24   receiving a query designed to identify a set of electronic records from the

25   electronic records stored in the database that satisfy criteria designated in the query;

26   prior to executing the query, modifying the query in accordance with the security

27   protocol to create a modified query that includes the XML tag from the security rule; and

28   generating information indicative of executing the modified query against the

29   electronic records stored in the database.